Elektronische Bauelemente

GBP2005 ~ GBP210

Voltage 50V ~ 1000V

2.0Amp Glass Passivated Bridge Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

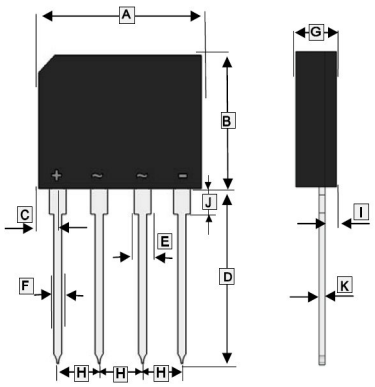
FEATURES

- I_o : 2A
- V_{RRM} : 50~1000V
- Glass passivated chip
- High surge forward current capability

APPLICATIONS

- General purpose 1 phase Bridge rectifier applications

GBP



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.25	14.75	G	3.35	3.65
B	10.1	10.6	H	3.7	3.9
C	1.8	2.2	I	0.8	1.1
D	14.25	14.73	J	1.8	2.2
E	1.22	1.42	K	0.35	0.55
F	0.76	0.86			

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Part Number							Unit
			GBP 2005	GBP 201	GBP 202	GBP 204	GBP 206	GBP 208	GBP 210	
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @ 60Hz sine wave, R-load	Without heatsink T_C =70℃	I_O	2.0							A
	With heatsink T_C =140℃									
Surge (Nonrepetitive) Forward Current @ 60H_Z sine wave, 1 cycle, T_J=25℃		I_{FSM}	65							A
Current Squared Time [1]		I^2t	17							A^2S
Peak Forward Voltage@ I_{FM}=1A, Pulse measurement, Rating of per diode		V_{FM}	1.05							V
Peak Reverse Current@ V_{RM}=V_{RRM} , Pulse measurement, Rating of per diode		I_{RRM}	10							μA
Thermal Resistance		$R_{\theta JA}$	47							℃ / W
		$R_{\theta JC}$	10							
Junction and Storage temperature range		T_J,T_{STG}	-55~+150							℃

Notes :

1. 1ms≤t<8.3ms T_J=25℃ , Rating of per diode

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RATINGS AND CHARACTERISTIC CURVES

FIG1:Io-Tc Curve

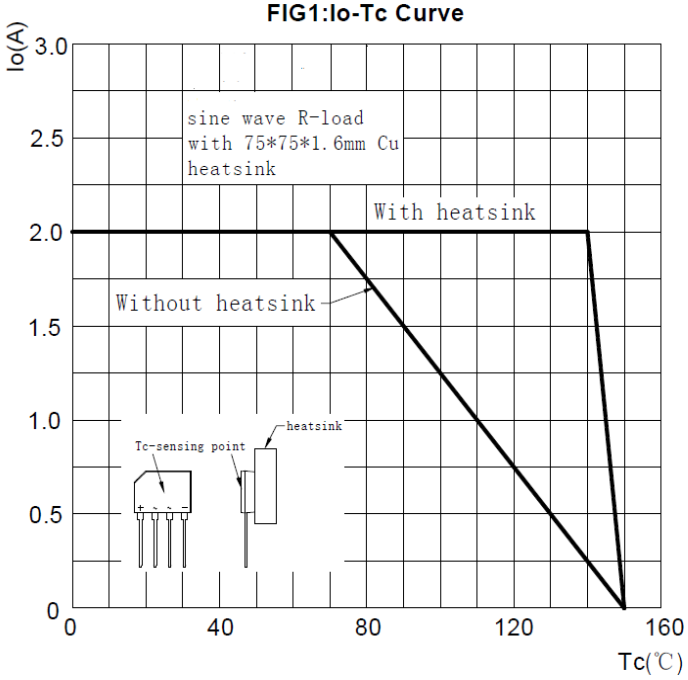

FIG2:Surge Forward Current Capadility

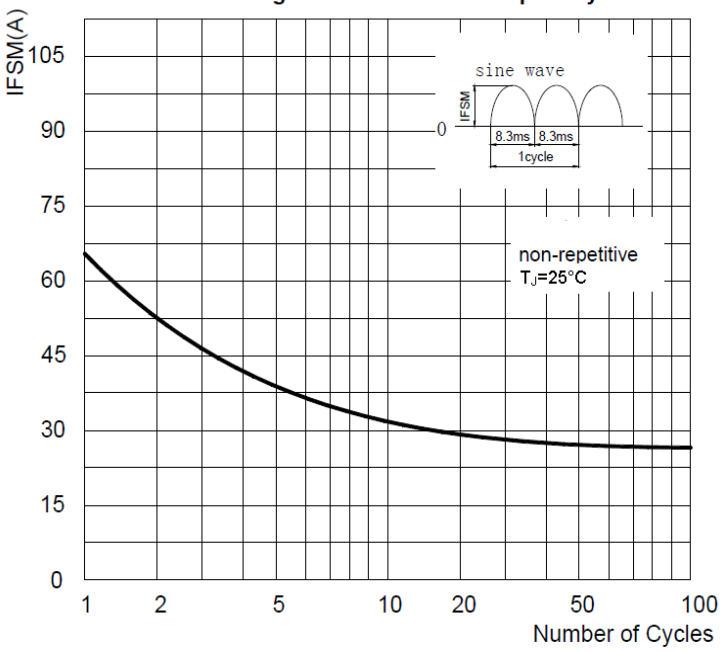

FIG3: Forward Voltage

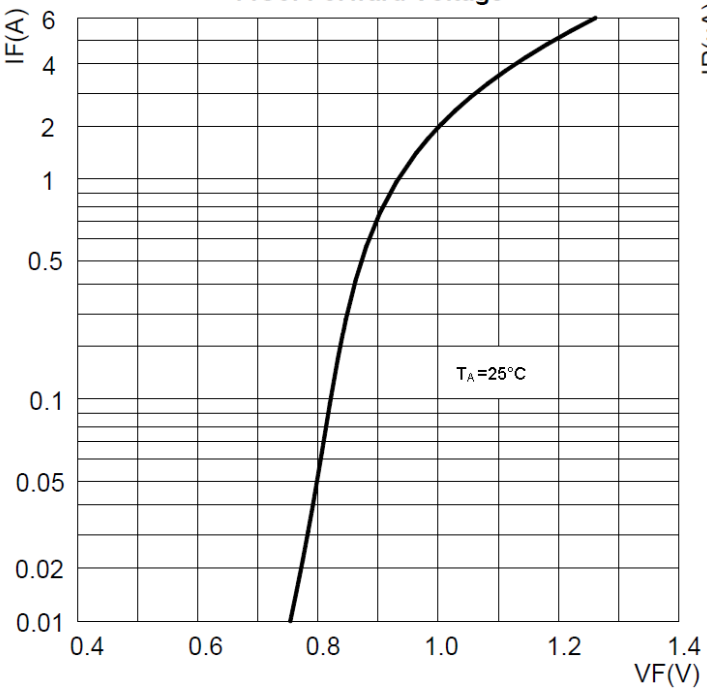

FIG4:Typical Reverse Characteristics